

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|------------------------------|------------------|---------|---------------------|
| L1 | 2327 | (600/509,513,514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/03/05 08:44 |
| S1 | 79130 | ((("600") or ("607"))).CLAS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/10/24 10:47 |
| S2 | 129 | S1 and "signal separation" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 12:04 |
| S3 | 1037 | (600/509).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/30 15:42 |
| S4 | 323 | (600/513).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/30 18:06 |
| S5 | 44 | (600/514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/30 18:06 |
| S6 | 12 | ("4830006" "4905706" "5012815" "5466254" "5476483" "5554177" "5687738" "5700283" "6044298" "6190324" "6409675" "6411840").PN. OR ("6643548").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 18:07 |
| S7 | 44 | ("3048166" "3052756" "3280817" "3762397" "4450838" "4549552" "4586514" "4628939").PN. OR ("4905706").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 18:08 |
| S8 | 40 | ("4815469" "4915113" "5040533" "5040538" "5113869" "5342408" "5365932" "5368040" "5404877" "5411031" "5454838" "5496351" "5511553" "5518001" "5544661" "5556421" "5720770" "5743268" "5788643" "5791344" "5792197" "5836889" "5904708" "5935081" "6045513" "6077227" "6264611" "6312378").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 18:15 |

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|----|-----|---|------------------------------|----|----|---------------------|
| | | OR ("6409675").URPN. | | | | |
| S9 | 105 | ("3442264" "3573394" "3799147" "3903733" "4008408" "4054808" "4094308" "4146955" "4183249" "4226248" "4234813" "4255791" "4268912" "4308870" "4376302" "4385255" "4387378" "4406967" "4413630" "4424465" "4428380" "4458693" "4491051" "4509527" "4546777" "4549551" "4586514" "4628321" "4630203" "4656385" "4697597" "4700712" "4712565" "4742458" "4777961" "4781200" "4784154" "4792145" "4803986" "4803996" "4805633" "4812976" "4821584" "4840183" "4842411" "4862144" "4862361" "4862897" "4905706" "4924875" "4928705" "4947859" "4957369" "4967760" "4991581" "5002058" "5002060" "5003605" "5010889" "5012815" "5025809" "5035247" "5036857" "5056201" "5086776" "5109863" "5129403" "5140992" "5164627" "5176153" "5213108" "5218969" "5301679" "5315512" "5337752" "5363401" "5365937" "5381804" "5394876" "5455385" "5501229" "5551437" "5553113" "5595188" "5598845" "5617869" "5638823" "5673702" "5680513" "5686917" "5687738" "5704365" "5718233" "5724967" "5724968" "5724983" "5727561" "5785657" "5796920" "5807268" "5853005" "Re32180").PN. OR ("6193668").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 18:20 |

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|-----|-------|---|------------------------|----|-----|------------------|
| S10 | 22 | ("4722342" "4763655" "4846195" "4886064" "4896068").PN. OR ("5040533").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/30 18:26 |
| S11 | 1 | ("5404877").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 09:09 |
| S12 | 1 | ("6409675").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 10:00 |
| S13 | 79231 | ((("600") or ("607")).CLAS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 10:00 |
| S14 | 320 | S13 and extravascular | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 10:01 |
| S15 | 88 | S14 and (ecg ekg) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 10:07 |
| S16 | 14 | ("4784162" "4827943" "5606969" "5919141" "5961446" "5961450" "6050940" "6375614" "6409675" "6415174" "6454708" "6480733" "6491639" "6628986").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 10:14 |
| S17 | 24 | S13 and "blind source separation" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 13:15 |
| S18 | 1039 | (600/509).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 13:15 |
| S19 | 604 | S18 and filter\$5 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 13:16 |
| S20 | 176 | S19 and (sound or microphone or accelerometer) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 14:35 |
| S21 | 736 | detect\$4 near2 cardiac near2 signal | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 14:36 |
| S22 | 50 | S21 and "heart sound" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 15:07 |
| S23 | 2 | "6792308" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 15:21 |

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|-----|------|--|------------------------------|----|-----|---------------------|
| S24 | 1 | ("20030032889").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 15:21 |
| S25 | 5 | ((("5704365") or ("6409675") or ("20030032889") or ("5935081") or ("6792308"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/12/01 15:32 |
| S26 | 5 | (US-20030032889-\$).did. or (US-5704365-\$ or US- 5935081-\$ or US-6409675- \$ or US-6792308-\$).did. | US-PGPUB; USPAT | OR | ON | 2005/12/01 15:32 |
| S27 | 18 | ("20030032889" "4784162" "4827943" "5606969" "5704365" "5919141" "5935081" "5961446" "5961450" "6050940" "6375614" "6409675" "6409675" "6415174" "6454708" "6480733" "6491639" "6628986" "6792308").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/01 15:38 |
| S28 | 1108 | (600/509).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/01 09:07 |
| S29 | 354 | (600/513).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/01 09:10 |
| S30 | 47 | (600/514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/01 09:11 |
| S31 | 419 | (600/515).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/01 09:11 |
| S32 | 1 | ("20050220636").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/01 14:54 |
| S33 | 183 | ("600".clas. "607".clas.) and ("blind source separation" bss ica "independent component anylysis") | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 13:50 |
| S34 | 5 | ("4736751" "5601081"). PN. OR ("6544170").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 11:55 |
| S35 | 6632 | powell.in. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 13:50 |
| S36 | 429 | S35 and thomas | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 13:51 |

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|-----|-----|--|------------------------------|----|-----|---------------------|
| S37 | 14 | S36 and bell | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 13:53 |
| S38 | 100 | (600/511).CCL.S. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/21 13:54 |
| S39 | 45 | S38 and pulse | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/21 13:54 |
| S40 | 22 | (US-20030032889-\$ or US-20060047215-\$ or US-20020095090-\$ or US-20030088164-\$ or US-20030166996-\$ or US-20050192500-\$ or US-20050267377-\$ or US-20050277841-\$).did. or (US-5935081-\$ or US-6792308-\$ or US-6409675-\$ or US-5704365-\$ or US-6371921-\$ or US-6424960-\$ or US-6544170-\$ or US-4736751-\$ or US-5601081-\$ or US-6936012-\$ or US-7018338-\$ or US-7037267-\$ or US-3811428-\$ or US-4781200-\$).did. | US-PGPUB; USPAT | OR | ON | 2006/08/21 14:36 |
| S41 | 21 | (US-5556421-\$ or US-5496351-\$ or US-5411031-\$ or US-5404877-\$ or US-7047071-\$ or US-6409675-\$ or US-7035684-\$ or US-6869404-\$ or US-6600949-\$ or US-6589188-\$ or US-5113869-\$ or US-6699200-\$ or US-6501983-\$ or US-6480733-\$ or US-6527729-\$ or US-5388578-\$ or US-5331966-\$ or US-5313953-\$ or US-7016721-\$ or US-6115630-\$ or US-6115628-\$).did. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/23 15:04 |

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|-----|------|---|------------------------------|----|-----|---------------------|
| S42 | 112 | ("3478746" "3940692" "4210149" "4310000" "4336810" "4411271" "4481950" "4513743" "4552154" "4562846" "4586508" "4625730" "4679144" "4681117" "4875483" "4905708" "5014701" "5042497" "5052399" "5086772" "5088488" "5111816" "5113869" "5133350" "5135004" "5193550").PN. OR ("5313953").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/23 15:19 |
| S43 | 87 | (607/23).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/23 15:25 |
| S44 | 17 | S43 and \$thoracic | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/23 15:26 |
| S47 | 61 | ("4223679" "4295474" "4625730" "4692719" "4702253" "4825869" "4886064" "4901725" "5003976" "5042497" "5058583" "5076272" "5088491" "5113869" "5197467" "5201808").PN. OR ("5404877").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/24 08:53 |
| S48 | 23 | ("4936304" "5304208"). PN. OR ("5496351").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/24 12:36 |
| S49 | 1681 | (600/509,513,514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/22 08:09 |
| S50 | 17 | ("20030083583" "20040106957" "5188117" "5564430" "5620466" "5658317" "5662688" "5702425" "5755738" "5891171" "5957857" "6029086" "6112119" "6418343" "6434426" "6493584" "6584351").PN. OR ("7155275").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 08:25 |
| S51 | 8 | ("4091818" "5313953" "5331966" "5511553" "5522860" "5697958" "6412490").PN. OR ("6584351").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 09:06 |

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|-----|----|---|------------------------------|----|-----|---------------------|
| S52 | 1 | ("5010887").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/22 09:06 |
| S53 | 57 | ("3858034" "4000461" "4129133" "4173230" "4250889" "4263919" "4458692" "4478224" "4686988" "4712555" "4790317" "4830020" "4913146").PN. OR ("5010887").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 09:07 |
| S54 | 79 | S50 S51 S52 S53 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 09:08 |
| S55 | 12 | ("4712555" "4788980" "4799493" "4940052" "4944298" "4960123" "5466254" "5817134" "5868680" "5871507" "5967995").PN. OR ("6493584").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 09:20 |
| S56 | 10 | ("4408615" "4420815" "4537200" "5010887" "5687735").PN. OR ("6041250").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 09:28 |
| S57 | 29 | ("3677260" "3927663" "3985142" "4135159" "4173230" "4243045" "4379459" "4516579" "4638808" "4649931" "4766902").PN. OR ("4960123").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:29 |
| S58 | 24 | ("600".clas. "607".clas.) and (verif\$ confirm\$) with (heart adj sound) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:46 |
| S59 | 1 | ("4763646").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/22 10:37 |
| S60 | 44 | ("2368207" "3156235" "3241556" "3358690" "3638656" "3650277" "3659615" "3857399" "4428378" "4545380" "4549548" "4550732" "4559946" "4579119").PN. OR ("4763646").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:37 |

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|-----|------|---|------------------------------|----|-----|---------------------|
| S61 | 210 | ("600".clas. "607".clas.) and (verif\$ confirm\$) same (ecg ekg electrocardiogram electrocardiograph) same (microphone "heart sound" impedance pressure) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:14 |
| S62 | 308 | ("600".clas. "607".clas.) and (correlat\$5) same (ecg ekg electrocardiogram electrocardiograph) same (microphone "heart sound" impedance pressure) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:14 |
| S63 | 78 | ("600".clas. "607".clas.) and (correlat\$5) with (ecg ekg electrocardiogram electrocardiograph) with (microphone "heart sound" impedance pressure) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:14 |
| S64 | 15 | (US-20070066907-\$ or US-20050240234-\$ or US-20040116969-\$ or US-20060064026-\$ or US-20030055343-\$).did. or (US-6584351-\$ or US-5010887-\$ or US-6493584-\$ or US-6650940-\$ or US-6491639-\$ or US-4763646-\$ or US-6440082-\$ or US-5702427-\$ or US-7096064-\$ or US-6527729-\$).did. | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:24 |
| S65 | 0 | "607".clas. and nonintrathoracic | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:24 |
| S66 | 32 | "607".clas. and "non-intrathoracic" | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:25 |
| S67 | 6 | "607".clas. and "extrathoracic" | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:26 |
| S68 | 125 | "607".clas. and "extracardiac" | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:26 |
| S69 | 254 | bardy.in. | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:24 |
| S70 | 436 | (600/528).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/22 15:28 |
| S71 | 21 | S69 and sound | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:22 |
| S72 | 3220 | (607/4,5,9).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/03/22 16:24 |

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|-----|----|---|------------------------------|----|----|---------------------|
| S73 | 23 | S72 and "heart sound" same (ecg ekg electrocardiogra\$) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 16:28 |
| S74 | 19 | S72 and skelet\$ same (ecg ekg electrocardiogra\$) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 16:29 |
| S75 | 17 | (US-5388578-\$ or US-6115628-\$ or US-5411031-\$ or US-5313953-\$ or US-6869404-\$ or US-5331966-\$).did. (US-20050240234-\$). did. or (US-RE35122-\$ or US-5337752-\$ or US-5178154-\$ or US-4446873-\$ or US-4428380-\$ or US-RE30750-\$ or US-3318303-\$ or US-5700283-\$ or US-5687738-\$).did. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/11 10:33 |
| S76 | 54 | ("3253595" "4289138" "4387717" "4424818" "4579119" "4595012" "4892102" "4895152" "4995389" "5087243" "5105826" "5133422" "5158097" "5172694" "5203348").FN. OR ("5388578").URFN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/11 11:08 |
| S77 | 17 | S76 and (sound microphone accelerometer "blood pressure") | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/11 11:08 |
| S78 | 62 | (US-20070066907-\$ or US-20070021676-\$ or US-20030055343-\$ or US-20070055167-\$ or US-20050192500-\$ or US-20050267377-\$ or US-20030166996-\$ or US-20030088164-\$ or US-20030032889-\$ or US-20040116969-\$ or US-20060047215-\$ or US-20020095090-\$ or US-20050137490-\$ or US-20050277841-\$ or US-20050240234-\$ or US-20030149369-\$ or US-20060064026-\$).did. or (US-4825869-\$ or US-5010887-\$ or US-7151957-\$ or US-6371921-\$ or US-4830020-\$ or US-6424960-\$ or US-4736751-\$ or US-3811428-\$ or US-4763646-\$ or US- | US-PGPUB; USPAT | OR | ON | 2007/04/11 12:29 |

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|-----|------|--|------------------------------|----|-----|---------------------|
| | | 6493584-\$ or US-6792308-\$ or US-7037267-\$ or US-6544170-\$ or US-5554177-\$ or US-6936012-\$ or US-4781200-\$ or US-4546777-\$ or US-6527729-\$ or US-6491639-\$ or US-5197467-\$ or US-5704365-\$ or US-6366811-\$ or US-5935081-\$ or US-6041250-\$ or US-5496351-\$ or US-5404877-\$). did. or (US-6440082-\$ or US-7035684-\$ or US-5331966-\$ or US-4960123-\$ or US-6409675-\$ or US-6685649-\$ or US-6584351-\$ or US-5702427-\$ or US-7096064-\$ or US-7139609-\$ or US-7018338-\$ or US-6650940-\$ or US-5601081-\$ or US-5388578-\$ or US-6501983-\$ or US-5337752-\$ or US-5178154-\$ or US-4446873-\$ or US-RE30750-\$). did. | | | | |
| S79 | 4 | S75 and "45" | US-PGPUB; USPAT | OR | ON | 2007/04/11 12:29 |
| S80 | 7 | S75 and S78 | US-PGPUB; USPAT | OR | ON | 2007/04/11 12:29 |
| S81 | 11 | re30750 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/12 08:09 |
| S82 | 1 | ("re30750").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/12 08:26 |
| S83 | 1 | ("20050240234").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/12 10:48 |
| S84 | 1 | ("5388578").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/12 11:49 |
| S85 | 1691 | (600/509,513,514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/04/12 11:49 |
| S86 | 1762 | "60"\$.clas. and (signal with separation) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/22 15:47 |
| S87 | 1269 | "60"\$.clas. and ((signal near3 separation) or ((principal independent) near3 component near3 analysis)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/22 15:48 |

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|------|------|--|------------------------------|----|-----|---------------------|
| S88 | 1643 | "60".\$.clas. and (((signal source) near3 separation) or ((principal independent) near3 component near3 analysis)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/22 15:49 |
| S89 | 1350 | "60".\$.clas. and (((signal source) near2 separation) or ((principal independent) near2 component near2 analysis)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/22 15:50 |
| S90 | 763 | S88 and (heart cardiac) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/22 15:50 |
| S91 | 1645 | "60".\$.clas. and (((signal source) near3 separation) or ((principal independent) near3 component near3 analysis)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/23 08:25 |
| S92 | 763 | S91 and (heart cardiac) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/23 08:25 |
| S93 | 763 | S92 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/23 08:25 |
| S94 | 9 | ("3991365" "4086917" "4143650" "5524631" "5620003" "5987983" "5989193" "6030347" "6450957").PN. OR ("6942621").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/23 09:48 |
| S95 | 1 | ("4378022").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/10/23 09:48 |
| S96 | 1830 | (600/509,513,514).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/10/24 10:47 |
| S97 | 1 | ("20050240234").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/27 10:16 |
| S98 | 1 | ("re30750").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/27 11:25 |
| S99 | 1 | ("5388578").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/27 14:09 |
| S100 | 1 | ("5919216").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/28 09:44 |

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|------|---|-----------------|------------------------------|----|-----|---------------------|
| S101 | 1 | ("5031617").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/28 09:47 |
| S102 | 1 | ("6853862").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/08/28 10:09 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------------------|------------------|---------|------------------|
| L2 | 7 | "600".clas. and (cardiac with "source separation").clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2010/03/05 08:50 |

3/ 5/ 2010 8:58:50 AM**C:\Documents and Settings\mkahelin\My Documents\ EAST\ Workspaces\ 10784478.wsp**